

Demand Response Automation Server (DRAS) Open Interface Standardization

TAG Meeting (02/29/08)

Proposed Agenda

- Update on current Working Group activities
- Discussion of synergistic efforts
- DRAS standards participation guidelines
- Review Technical Documentation
- Next Steps and action Items

Current Working Group Activities

- DRAS standards promotion
 - GIB Conference, April Baltimore
 - Connectivity week in May
 - TC8
 - ASHRAE in June
 - National conference on building commissioning May
 - CEC load management workshop
- Working with BACnet to define interface.
- Continued refinement of data models
- Joined AMI-SEC working group
- First complete draft of functional specification

Schedule for First Complete Draft

- Jan TAG Meeting
 - Complete first draft of conceptual data models
 - DRAS_event_bid_models document
 - event_propagation_model document
 - DRAS_datamodels document (diagrams)
 - conceptual_data_model document (text descriptions)
- Feb TAG Meeting
 - Complete first draft of functional specifications
 - functional_specification document
- March TAG Meeting
 - Complete Web Services interface specification (including BACnet interface)
 - Web_services_api document
 - Complete first draft of security policy
 - Security Policy document
- April TAG Meeting
 - Complete first draft of consolidated document
 - Consolidate all previous documents into a single draft.

Synergistic Efforts

- BACnet Standard Project Committee (SPC) and Analysis Program (<http://www.bacnet.org/>) – NIST
- IntelliGrid™ (<http://intelligrid.info/>) Living Laboratory Project with Enernex
- OpenHAN (<http://sharepoint.ucausersgroup.org/OpenHAN/>) – TAG and Enernex (<http://www.enernex.com/>)
- Open Home Automation Network (OpenHAN) and Advanced Metering Infrastructure (AMI) (<http://www.sdge.com/ami/>) – SDG&E
- AMI (<http://www.pge.com/smartmeter/>) – PG&E
- AMI (<http://www.sce.com/PowerandEnvironment/ami/>) – SCE
- OpenAMI (<http://www.openami.org/>) – TAG
- Gridwise™ (<http://www.gridwise.com/>) and Gridwise Architecture Council (GWAC) (<http://www.gridwiseac.org/>) – TAG
- Programmable Communicating Thermostats (PCT) (<http://pct.berkeley.edu/>) – CEC/PIER
- Standardization of Bidding Messaging Models – CA ISO
- Southern Company RTP XML Demonstration – TAG
- Continental Automated Building Association (CABA) (<http://www.caba.org/>) – TAG
- UCA International Users Group (<http://sharepoint.ucausersgroup.org/default.aspx>)
- TC-8 (European)
- New Energy Alliance
- DRAM?

DRAS Standards Participation Guidelines

- Adding verbiage to cover IP issues
 - Full disclosure of patents by participating parties

Technical Documentation

- Review of bidding models
 - DRAS_event_bid_models_feb-19-08.pdf
- Review of Use Case mapping to Func Spec
 - DRAS_archtechure_feb-22-08pdf
- Review of DRAS data models
 - DRAS_datamodels_Feb-25-08.pdf (diagrams)
 - conceptual_data_model_feb-25-08.doc
- Review of functional specification
 - functional_specification_Feb-26-08.doc
- Review of Event State Schema
 - Event_state_feb_24_08.xsd

Technical Documentation Topics

- Functional specifications including relationship to use cases
- Event State added response schedules
- Event State sequence diagram and confirmation message
- DR Event XML Schema
- DR Event Standard data types
- DR Event schema
- Feedback data types
- Logs

Next Steps

- Continue refining data models and functional specification
- Create first draft of API doc
 - XML schemas for data entities
 - Specifications for web services
- Next meeting